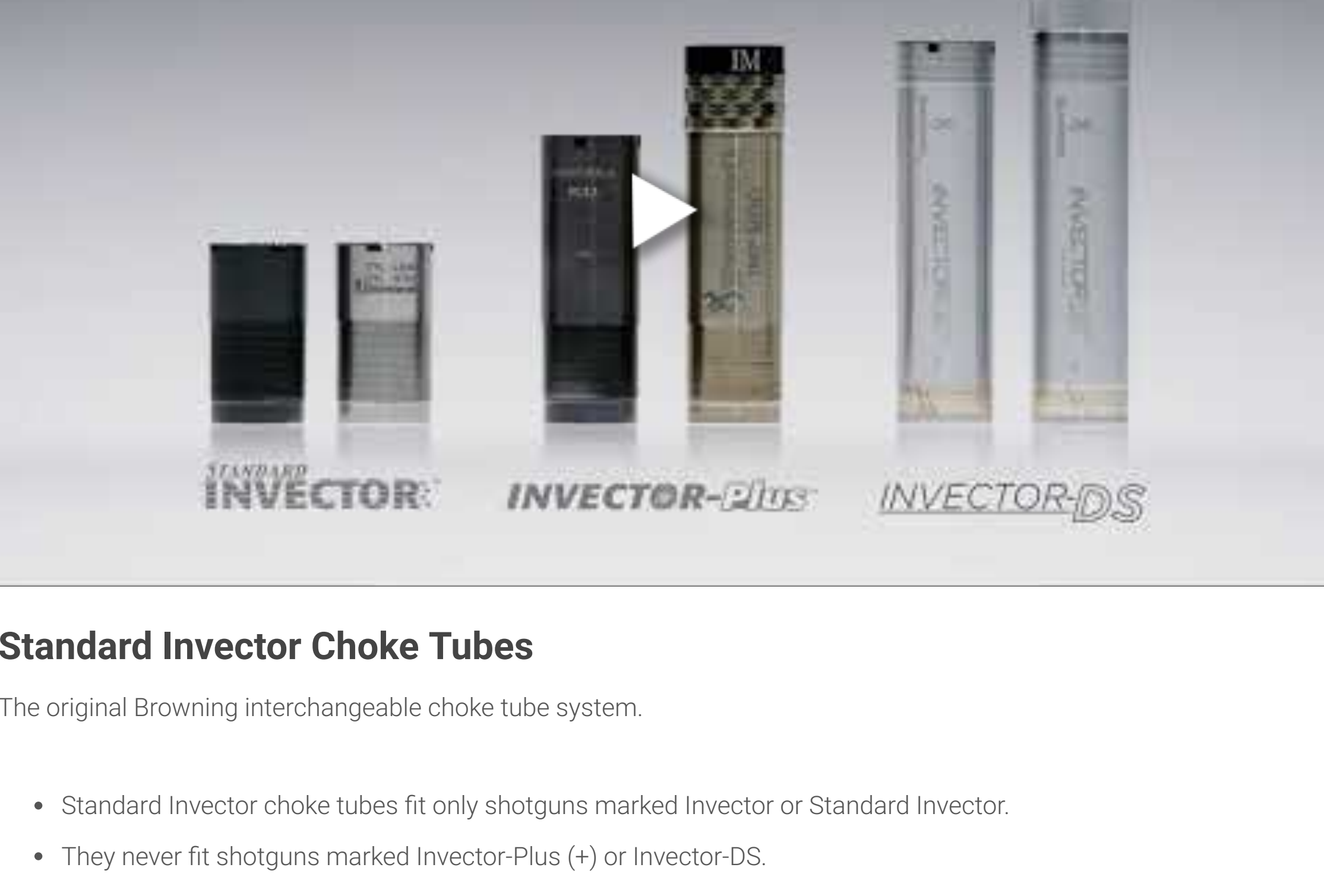


Choke Tube Identification

How to Choose the Correct Choke Tube System for Your Browning Shotgun

Three different choke tube systems have been offered in Browning shotguns: Standard Invector, Invector-Plus and Invector-DS. **The choke tube systems are not interchangeable.** Over the years, the same shotgun models and even the same gauges have been fitted with these three different choke tube systems. Each system is also used on various models of current Browning shotguns. Carefully read below and you won't make a mistake when ordering choke tubes for your Browning shotgun.

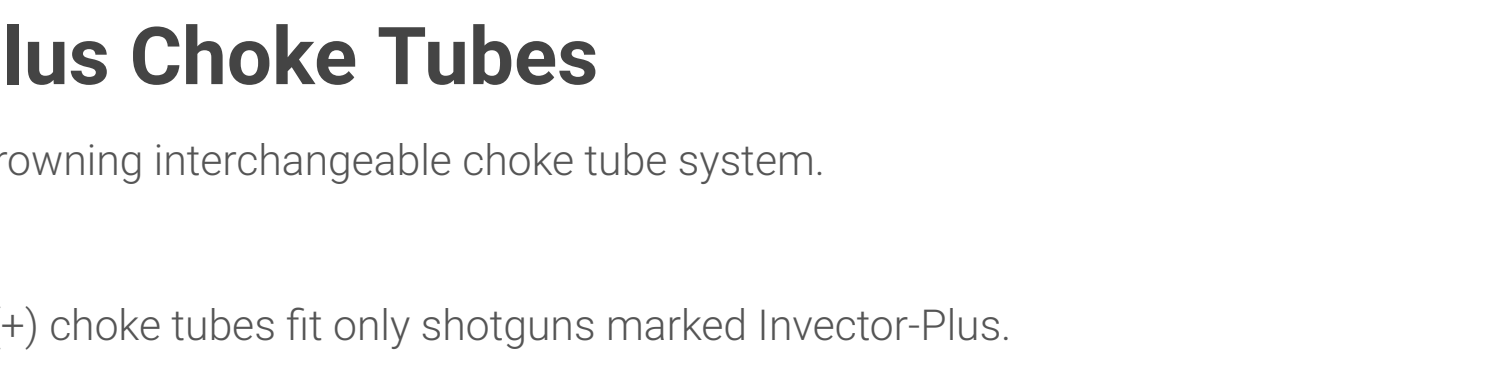


Standard Invector Choke Tubes

The original Browning interchangeable choke tube system.

- Standard Invector choke tubes fit only shotguns marked Invector or Standard Invector.
- They never fit shotguns marked Invector-Plus (+) or Invector-DS.
- 10 gauge, 28 gauge and .410 bore Browning shotguns always utilize the Standard Invector system.
- Most 16 gauge shotguns use the Standard Invector system, with the exception of the current A5 Sweet 16 models, which use the Invector-DS system.
- Multi-gauge sets, found on Citori over and under shotguns, will often include a combination of Invector-Plus (12 and 20 gauge) and Standard Invector (16 and 28 gauge and .410 bore).

Over the past 30 years, many products have featured the Standard Invector choke tube system. Extended choke tubes are available for Standard Invector, which because of their length make them appear similar to Invector-Plus choke tubes, but they are NOT interchangeable.



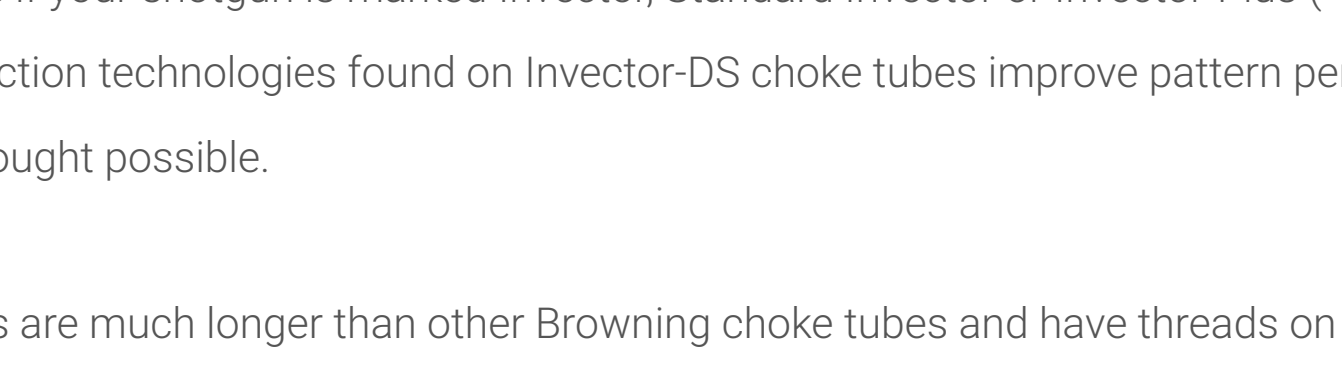
Look for a stamp on the barrel that says "Standard Invector" or often simply "Invector" as pictured above on autoloading and pump shotguns or on the monobloc of break-action shotguns.

Invector-Plus Choke Tubes

The most popular Browning interchangeable choke tube system.

- Invector-Plus (+) choke tubes fit only shotguns marked Invector-Plus.
- Invector-Plus choke tubes are longer than choke tubes marked Invector or Standard Invector.
- They never fit shotguns marked Invector, Standard Invector or Invector-DS.
- Many 12 and 20 gauge Browning shotguns utilize the Invector-Plus system.
- Multi-gauge sets, found on Citori over and under shotguns, will often include a combination of Invector-Plus (12 or 20 gauge) and Standard Invector (16, 28 gauge or .410 bore).

Invector-Plus is the most popular choke tube system used in 12 and 20 gauge Browning shotguns. A range of extended choke tubes are available for Invector-Plus-equipped shotguns.



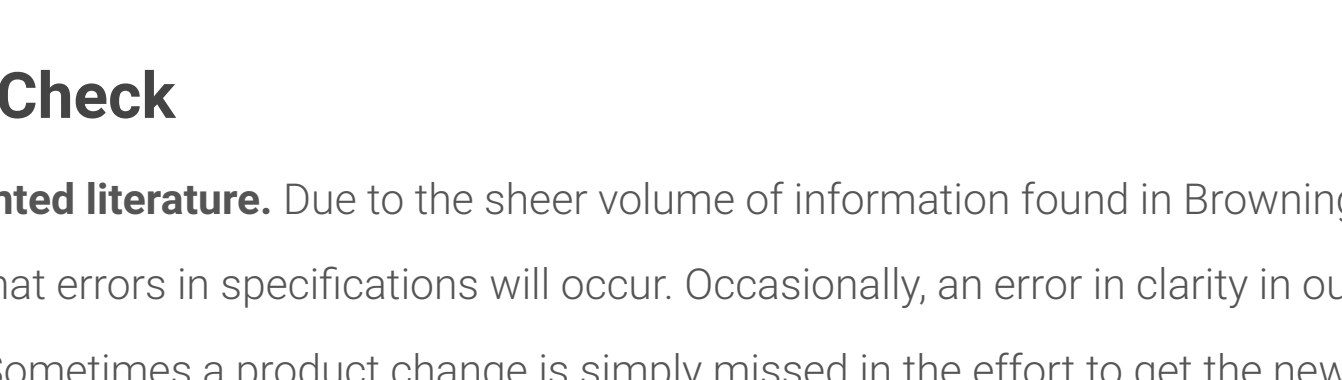
Look for a barrel stamp that says "Invector Plus" like the one pictured above on autoloading and pump shotguns or on the monobloc of break-action shotguns.

Invector-DS Choke Tubes

The newest and most advanced Browning choke tube system.

- Invector-DS choke tubes fit only Browning shotguns with Invector-DS marked on the barrel(s).
- DO NOT buy these if your shotgun is marked Invector, Standard Invector or Invector-Plus (+).
- The choke constriction technologies found on Invector-DS choke tubes improve pattern performance beyond what was previously thought possible.

Invector-DS choke tubes are much longer than other Browning choke tubes and have threads on the muzzle end of the tube. They also feature a bronze seal at the base of the tube that helps prevent fouling from being forced into the gap between the barrel and the choke tube, making the tube difficult to remove.



Look for a barrel stamp that says "Invector DS" like the one pictured above on autoloading and pump shotguns or on the monobloc of break-action shotguns.

Before Purchasing Choke Tubes

If you have any questions regarding which choke tube system is compatible with your shotgun, call our Customer Service department during business hours, 8:00 AM to 4:30 PM Mountain time. TOLL FREE: **1-800-333-3288**

In all cases, the type of choke tube your barrel has is indicated on the barrel and for new shotguns can be found under the "Features" listing on the product page on the Browning website.

Always Double Check

Errors in online and printed literature. Due to the sheer volume of information found in Browning printed and digital literature it is possible that errors in specifications will occur. Occasionally, an error in clarity in our printed or online information will occur. Sometimes a product change is simply missed in the effort to get the new information to you, our customers. Since many multi-barrel sets are "specials" made virtually "to order" the actual specifications for the model may not be known until well after the model is announced. Before making an expensive purchase of multi-barrel sets, or if you have any questions at all about the choke tube system your shotgun is fitted to accept, call our Customer Service department for clarification.

Browning Customer Service

One Browning Place
Morgan, UT 84050
TOLL-FREE: **1-800-333-3288**

If you have any additional insights or desire clarification for any of the above we welcome your input.

Choke Tube Systems Available By Gauge

Standard Invector, Invector-Plus and Invector-DS choke tube systems are NOT interchangeable.

10 Gauge	12 Gauge	16 Gauge	20 Gauge	28 Gauge	.410 Bore
Standard Invector	Standard Invector	Standard Invector	Standard Invector	Standard Invector	Standard Invector
	Invector-Plus	Invector-DS	Invector-Plus		
	Invector-DS	(A5 Sweet 16 only)	Invector-DS		

The History of Browning Choke Tube Systems

Choke tubes are an integral part of a modern shotgun. When researching a Browning Citori or Citori 725 on the Browning website it is generally a good idea to confirm the type of choke each model is fitted with. Do this by looking on the barrel, the monoblock, on the choke tubes included with the shotgun or on our website by clicking on the model and looking under "Features."

This is a good start, but due to the fact that some models have multiple barrels in multiple gauges, it can become much more confusing. The confusion is due to the very nature of multi-barrel sets and due to the act of producing sub-gauge models in versions based on 12 gauge models. Given that many of us love multi-gauge sets and sub-gauge over and unders, understanding the process is worth the time and effort.

The special issue of multi-barrel set shotguns. Multi-gauge/barrel sets are like the custom cars of the firearms business. They are not a run-of-the-mill product that is mass produced by the millions. A bit of customization is exactly what most customers want. The act of fitting all barrels makes them very close to custom. Therefore, it should be expected that a higher level of uniqueness will exist in what you purchase and that you will get a higher level of customization for your money. When shopping for firearms at this level of design and quality, it pays to spend some extra time learning about the features before you make your purchase.

If you are new to shotgunning, and in particular Browning shotgunning, it is important to know that none of the choke tube systems produced by Browning are interchangeable. They all have their own histories in the Browning timeline of new features development over many years and they all fit a specific purpose. That being said, all Browning choke tube system designs are still relevant and effective today.

Standard Invector (or Invector)

A very early introduction in the marketplace.

Invector Plus (or Invector +)

A longer tube with improved pattern performance.

Invector-DS

A totally new concept in pattern performance and a breakthrough in creating a better tube-to-barrel seal.

All are currently available in extended versions which protrude beyond the end the muzzle when screwed tightly in place. This means that determining the type of Browning choke tube system by length is not possible, or at best can be totally confusing. Refer to the inscription on the choke tube and match it up to the inscription on the barrel of your shotgun.

There are choke tubes within each of the three systems designed for specific purposes such as steel shot or turkey hunting, for example. For detailed information on the different types of Browning choke tubes available, click here.

Multi-Gauge Sets

Multi-gauge sets are shotguns with matched sets of barrels with different gauges. Browning makes over and under shotguns with multiple barrel sets fitted to a single receiver. The points below are essential for you to choose the correct choke tubes for a multi-barrel set.

- In all cases, the 16 and 28 gauge and .410 bore barrels in multi-gauge sets will be STANDARD INVECTOR for all Browning shotguns.
- Generally, 12 and 20 gauge barrels in Citori 725 sets will be Invector-DS.
- Generally, current 12 and 20 gauge barrels in Citori (non-725) sets will be Invector-Plus.
- Many older sets might be Standard Invector (beginning way back the 1980s), but no current sets.
- There are no 10 gauge barrels in multi-barrel sets.
- For special builds and other specials, there may be exceptions. Always check the barrel first to know which system to use before purchasing.
- The variations may seem confusing, but these sets are built in response to customer requests over time and will not always be consistent. This will not be a problem if you always check the barrels first to make sure you know the choke tube system that is compatible with each barrel or barrel set.

The choke tube system will be identified:

- On the barrel or monobloc
- In the "Features" listing on the Browning website
- If you are unable to locate this information, please contact our Customer Service department.

Identifying a Choke Tube's Constriction or Pattern Rating

Browning choke tubes use several systems for identification. Some are useful in the field, and others when the choke tube is out. Choke tubes supplied with your Browning shotgun often have notches in the top edge which can help you determine the choke constriction. Generally you will need to remove it and read the inscription on the side of the tube.

GENERAL ABBREVIATIONS (as found on product listings)	DESCRIPTIONS
XF	Extra Full
XF TRAP or X-FULL TRAP	Extra Full Trap Shooting Choke
X FULL TKY-TRAP	Dual-use Extra Full tube for turkey or trap shooting
X FULL TKY	Extra Full Turkey Hunting Choke
F	Full
LF or LFULL	Light Full
IMOD or IM or IMP MOD or I MOD	Improved Modified
MOD or M	Modified
LMOD or LM or LT MOD or L MOD	Light Modified
IMP CYL or IC	Improved Cylinder
SK or EXT SKT	Skeet
CYL or C	Cylinder (sometimes incorrectly abbreviated to CLY)
SPREADER	Special tube with a form of "rifling" that spreads the pattern rapidly, for close-in upland hunting
RIF DEER	Rifled Deer Tube (for shooting slugs, primarily sabots)

NOTCHES IN RIM OF TUBE	(OEM Invector and Invector Plus, not found on extended tubes)
I	Full lead or steel, but may be too tight for good steel performance
II	Modified lead, Improved Modified Steel
III	Improved Cylinder lead, Improved Cylinder Steel
IIII	Skeet lead, Modified Steel
NONE, no notch	Cylinder lead, Improved Cylinder Steel

SPECIALTY DESIGNATIONS	
LONG	Tight constriction tube used for longer ranges, mostly referring to steel shot
MED	Medium constriction for medium ranges with steel shot
CLOSE or CLOSE RANGE	Very open choke tube used for close-range shooting with steel shot

OTHER ABBREVIATIONS	
WF	Waterfowl
TKY	Turkey
INV PLUS	Invector-Plus Choke Tube System
INV	Invector Choke Tube System (Standard Invector)
EXT	Extended choke tube that extends beyond the muzzle
INV DS	Invector-DS Choke Tube System
TNT	Timber and Teal (helically spun to spin shot)

Average Pattern Percentages

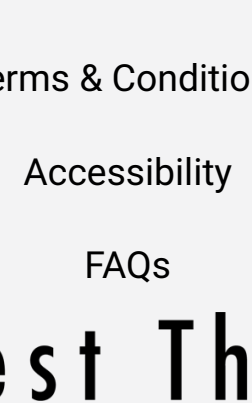
Measured using the number of pellets in a 30" circle at 30 yards. Varies with shot size and/or lead vs. steel shot. Steel patterns generally exhibit a higher percentage of pellets inside the circle.

IMPORTANT: The following values are approximate. They vary between gauges and the type, length and design of the choke tube.

12 GAUGE	20 GAUGE
75-85% – Extra Full Trap	55-85% – Full
55-85% – Full	45-75% – Improved Modified
70-75% – Light Full	35-65% – Modified
45-75% – Improved Modified	30-60% – Light Modified
35-65% – Modified	25-55% – Improved Cylinder
30-60% – Light Modified	20-45% – Skeet
25-55% – Improved Cylinder	
20-45% – Skeet	
15-45% – Cylinder	
Very open – Spreader	

Abbreviations and Constrictions for Browning Invector-DS Choke Tubes

INVECTOR-DS CHOKE, 12, FULL 75-80%	INVECTOR-DS CHOKE, 12, FULL, EXTENDED 75-80%
INVECTOR-DS CHOKE, 12, LIGHT FULL 70-75%	INVECTOR-DS CHOKE, 12, LIGHT FULL, EXTENDED 70-75%
INVECTOR-DS CHOKE, 12, IMOD 65-75%	
INVECTOR-DS CHOKE, 12, MOD 55-65%	INVECTOR-DS CHOKE, 12, IMOD, EXTENDED 65-75%
INVECTOR-DS CHOKE, 12, LMOD 45-55%	INVECTOR-DS CHOKE, 12, MOD, EXTENDED 55-65%
INVECTOR-DS CHOKE, 12, IC 40-45%	INVECTOR-DS CHOKE, 12, LMOD, EXTENDED 45-55%
INVECTOR-DS CHOKE, 12, SK 35-40%	INVECTOR-DS CHOKE, 12, IC, EXTENDED 40-45%
	INVECTOR-DS CHOKE, 12, SK, EXTENDED 35-40%



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